SHARP

# DAB RECEIVER

**MODEL**

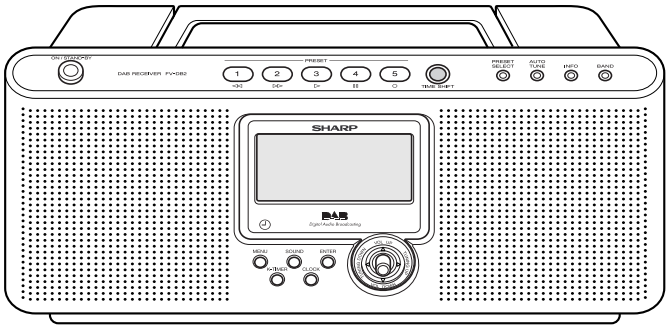
# FV-DB2E

**OPERATION MANUAL**

**If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.**
**Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).**

DAB
Digital Audio Broadcasting

**Thank you for purchasing this SHARP product.**
**To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.**




*The stylized mark 'DAB Digital Radio' is a trademark of Digital One Limited used under licence, and the stylized 'R' mark is a registered trademark of Digital One Limited.™ & © 2003.*

DAB digital radio

## NOTES FOR USERS IN THE U.K. AND IRELAND

**SERVICE INFORMATION**

In the unlikely event of your equipment requiring repair, please use the supplied postage paid label to send your unit to the Sharp repair centre or contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport.
Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company. Please keep your invoice or receipt, which is supplied at the time of purchase.

## Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

**A. Information on Disposal for Users (private households)**

**1. In the European Union**

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

**2. In other Countries outside the EU**

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

**B. Information on Disposal for Business Users**

**1. In the European Union**

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

**2. In other Countries outside the EU**

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

# Special notes

**WARNINGS**

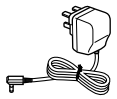
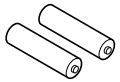
- The supplied AC adaptor contains no user serviceable parts. Never remove covers unless qualified to do so. It contains dangerous voltages, always remove the mains plug from the main outlet socket before any service operation or when not in use for a long period.
- The AC adaptor supplied with the FV-DB2E must not be used with other equipment.
- Never use an AC adaptor other than the one specified. Otherwise, problems or serious hazards may be created.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

**NOTES**

- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- The letters in brackets contained in the model number indicate the colour of the product only. Operation and specifications are unaffected.

# Accessories

Please confirm that the following accessories are included.

| | |
|---|---|
|  **AC adaptor × 1 (RADPAA001SJZZ) or (RADPAA002SJZZ)** |  **"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2** |

**Notes:**

- Only the above accessories are included.
- The AC adaptor may be different from the one in the drawing.

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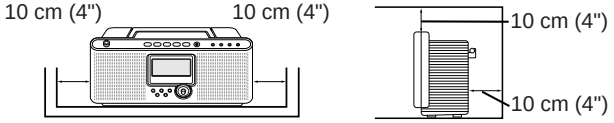
# Precautions

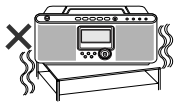


## ■ General

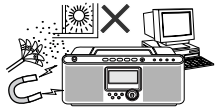
- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



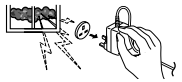

- Use the unit on a firm, level surface free from vibration.



- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.



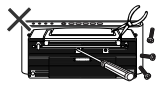
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your unit does not work properly, disconnect the AC adaptor from the wall socket. Plug the AC adaptor back in, and then turn on your unit.
- In case of an electrical storm, unplug the unit for safety.



- Do not use an external power supply, other than the 9 V DC supplied with this unit as it may be damaged.
- SHARP is not responsible for damage due to improper use. Refer all servicing to a SHARP authorised service centre.

- Hold the AC adaptor plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.

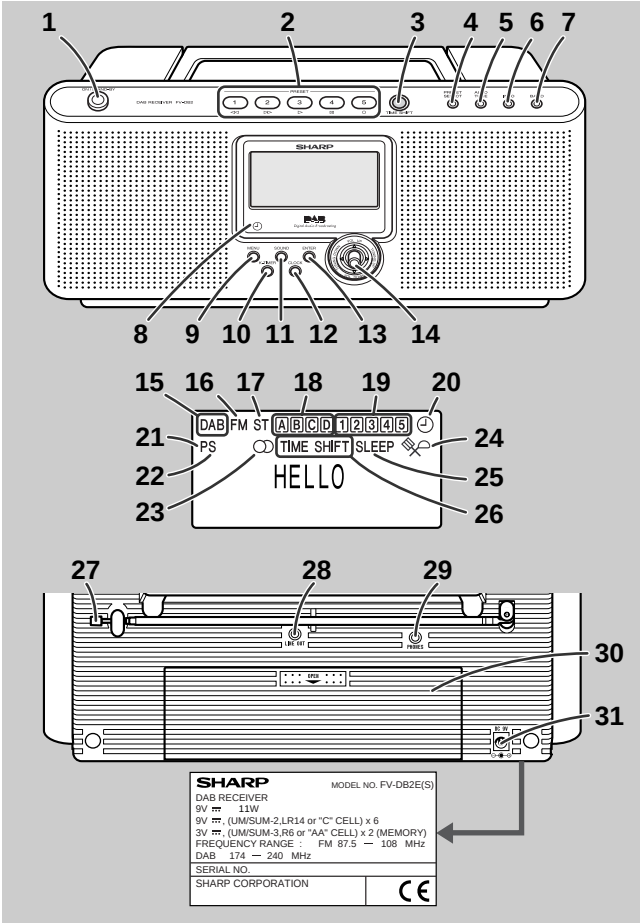
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

**Warning:**
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

## ■ Volume control

It is advisable to avoid exposure to high volume levels. Do not turn on the unit with the volume set to the maximum. Keep the volume moderate when listening to music.

# Controls and indicators

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# Power source

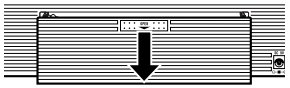


## ■ Inserting memory batteries

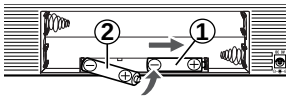
Memory batteries maintain the clock setting and preset stations for the tuner.

**Failure to install the batteries correctly will cause loss of memory and the unit will revert to Auto Tune mode when next switched on.**

**1** **Press and slide the cover to open the battery compartment.**



**2** **Insert the supplied 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar) into the battery compartment.**




**Insertion and removal:**

Push the battery ② toward ⊖ to insert or remove.

**3** **Close the battery compartment.**

**Caution:**

Do not use rechargeable batteries (nickel-cadmium battery, etc.).

**Notes:**

- If memory batteries are not inserted or low, preset stations and the clock setting will be lost.
- Enter the power stand-by mode and connect the AC adaptor before replacing memory batteries. Otherwise preset stations and the clock setting will be lost.
- Replace memory batteries approximately once a year.

**Precautions for battery use:**

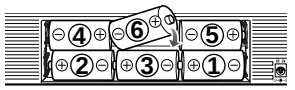
- Installing the batteries incorrectly may cause the unit to malfunction.
- Insert the batteries according to the direction indicated in the battery compartment.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.

## ■ Using with the main batteries

When the unit is powered by the main batteries, make sure to install memory batteries. Otherwise preset stations, the clock setting and DAB setting will be all lost when the main batteries run out.

**1** **Disconnect the AC adaptor, and open the battery compartment.**

**2** **Insert 6 "C" size alkaline batteries (LR14) into the battery compartment.**




"C" size alkaline batteries (LR14) are not included.

**Insertion and removal:**

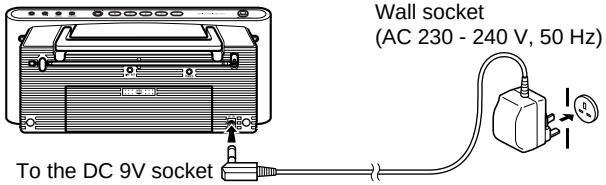
Push the batteries ③ and ⑥ toward ⊖ to insert or remove.

**3** **Close the battery compartment.**

**Battery replacement:**

When batteries are low, sound decreases or becomes distorted. Replace the batteries with new ones.

## ■ Using with the AC adaptor

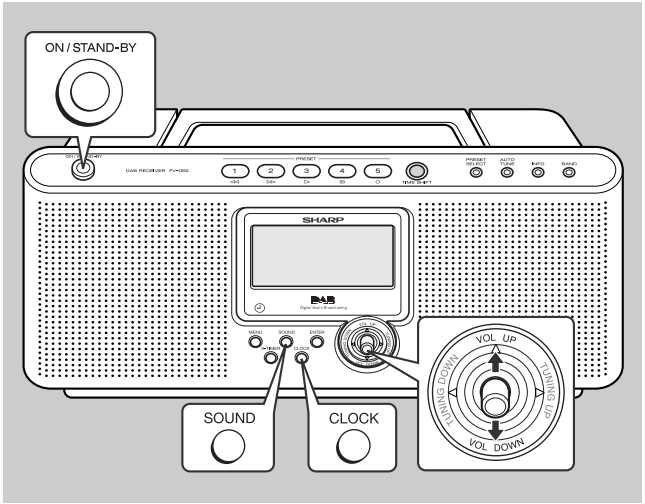



Plug the AC adaptor into the wall socket, and then insert the plug on the other end into the DC 9V socket.

**Notes:**

- Unplug the AC adaptor from the wall socket if the unit will not be used for a prolonged period of time.
- Connecting the AC adaptor to the unit disconnects the main batteries.
- Use only the supplied AC adaptor. Using other AC adaptor may cause an electric shock or fire.

# General control




## ■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

**When turned on for the first time, the unit scans radio stations automatically to create the station list (see page 9).**

**After use:**

Press the ON/STAND-BY button to enter the power stand-by mode.

## ■ Adjusting the volume

Move the operation lever toward VOL UP or VOL DOWN to increase or decrease the volume.

Volume : 10 ⇔ 0 ↔ 1 ↔ 2 ····· 39 ↔ 40

## ■ Adjusting the bass

1 Press the SOUND button to select "Bass".
2 Within 5 seconds, move the operation lever toward VOL UP or VOL DOWN to adjust the bass.

Bass : +2 ⇔ -5 ← ··· → 0 ← ··· → +5

## ■ Adjusting the treble

1 Press the SOUND button to select "Treble".
2 Within 5 seconds, move the operation lever toward VOL UP or VOL DOWN to adjust the treble.

Treble : +2 ⇔ -5 ← ··· → 0 ← ··· → +5

## ■ Checking date and time

When a DAB (Digital Audio Broadcasting) station is received, date and time are set automatically.

Press the CLOCK button until time and date appear on the display.

23:59 07-07-2005

When "No time&date" appears, receive a DAB station to set date and time.

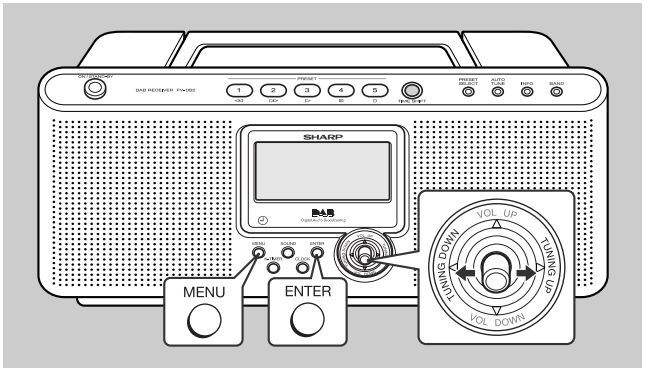
**Notes:**

- If memory batteries are not inserted or low, the clock setting will be lost. This can be avoided when the AC adaptor is connected. The clock setting will be lost if the unit is powered only by the main batteries and set to the power stand-by mode.
- Time is displayed in 24-hour format.

# Changing the display brightness

| | | |
|---|---|---|
| **1** | **Press the MENU button repeatedly to select "Set Dimmer".** | Set Dimmer |
| **2** | **Within 30 seconds, press the ENTER button.** | Dimmer on ◂<br>Dimmer off |
| **3** | **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the display brightness.**<br>**Dimmer on:** After 30 seconds of inactivity, the backlight goes dim. Press a button to turn it back on. This is the default setting.<br>**Dimmer off:** The backlight remains on. | Dimmer on<br>Dimmer off ◂ |
| **4** | **Within 30 seconds, press the ENTER button.** | |

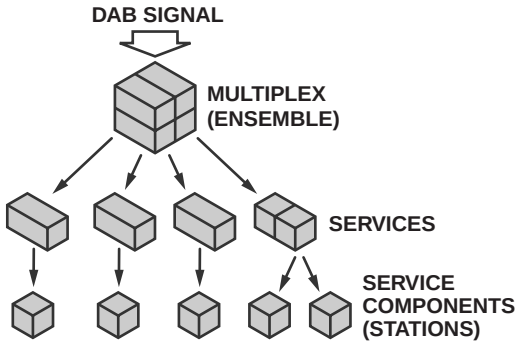
**Note:**
When the unit is powered only by batteries, the display turns on at the press of any button regardless of the dimmer setting. It turns off after 30 seconds of inactivity.




# Listening to the DAB

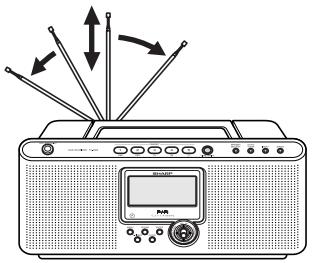
## ■ About DAB (Digital Audio Broadcasting)

Digital Audio Broadcasting is a digital transmission system where audio signals are converted to digital signals for broadcasting.
DAB is broadcast as a group of data called multiplex (ensemble) which may contain one or more stations (services). Each station contains a primary service and there may be one or more secondary services.
This allows several programmes or services to be transmitted on a single frequency.




**Aerial adjustment:**

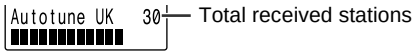
Raise and extend the telescopic rod aerial, then adjust the position and length for the best reception.



## ■ Auto tune

**When turned on for the first time, the unit scans radio stations automatically to create a station list.**

- 12-digit solid blocks show the progress of scan.
- The number of received stations is displayed.

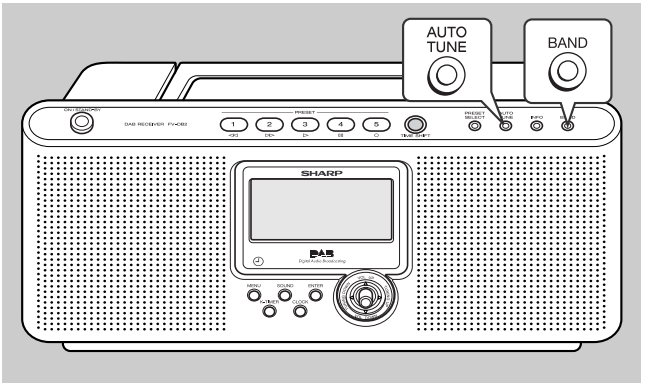



**After the scan:**
The stations will be stored in alphanumeric order and the first station on the list will be selected and you will hear it through the speakers.

- To listen to other stations, see "Selecting a station in the station list" on page 10.
- You can arrange the order of stations in the station list (see page 11).

**Notes:**

- If no station is found, "No station" appears.
- Up to 99 appears for total received stations.



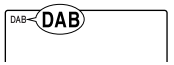

## ■ Retuning the unit (Auto tune)

You can retune the radio when you move the unit to other areas or add multiplex channels to the station list.
There are two Auto tune options available.

**Autotune UK:** Only the frequencies of radio stations in the UK are scanned. This may take a few seconds.

**Autotune Full:** The full range of digital frequencies is scanned in Band III. This may take a few minutes.

**1** **Press the BAND button until "DAB" appears on the display.**

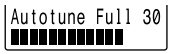



**2** **Autotune UK:**

**Press the AUTO TUNE button for less than 1 second.**

**Autotune Full:**

**Hold down the AUTO TUNE button for 2 seconds or more.**




You can cancel the Auto tune by pressing the AUTO TUNE button again.

**After the scan:**
The unit will return to the station you were listening to and you will hear it through the speakers. All the stations found are now stored in the unit.

# Listening to the DAB (continued)



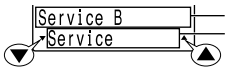
## ■ Selecting a station in the station list

Once a DAB station is received, you can select stations in the station list.

**1 Press the BAND button until "DAB" appears on the display.**

**2 Whilst receiving a DAB station, move the operation lever toward TUNING UP or TUNING DOWN to select the desired station.**

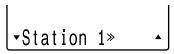
- The upper part of the display shows the current station name, and the name of the station being scanned (with "▼ ▲") appears in the lower part.



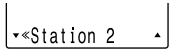

The current station name

The name of the station being scanned

- If a station has one or more secondary services, "»" appears after the station name. This indicates a secondary service is also available.




- Whilst selecting a secondary service, "«" appears before the station name. This indicates a primary service is also available.




**3 Within 30 seconds, press the ENTER button.**

- When the current station is primary with secondary, "P" lights up.
- When the current station is secondary, "S" lights up.
- When the current station is primary without other services, no indicator lights up.

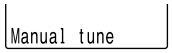
**Note:**
Inactive stations cannot be received by Auto tune ("Not available" appears). Tune in manually by adjusting the aerial direction.

## ■ Manual tune

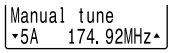
You can manually store stations which Auto tune cannot find. If reception is poor, you can adjust the sensitivity.
Manual tune is only available after Auto tune. Perform Auto tune first.

**1 Press the BAND button until "DAB" appears on the display.**

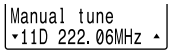
**2 Press the MENU button repeatedly to select "Manual tune".**




**3 Within 30 seconds, press the ENTER button.**

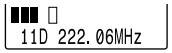



**4 Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to tune in to the desired station.**




**5 Within 30 seconds, press the ENTER button.**

- Reception sensitivity appears. The white block indicates the minimum required level and the solid blocks indicate the current level.




- If the level is below the white block, move the rod aerial or unit to improve reception. When the level reaches the white block, a multiplex name appears and the multiplex will be added to the service list.

**Exiting Manual tune:**
Press the ENTER button to exit manual tuning.

## ■ Changing the station order

You can change the order of stations in the station list.

**1** **Press the BAND button until "DAB" appears on the display.**

**2** **Press the MENU button repeatedly to select "Station order".**

Station order

**3** **Within 30 seconds, press the ENTER button.**

Station order
▾Alphanumeric ▴

**4** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the desired station order.**

**Alphanumeric:**

All stations are displayed in alphanumeric order. This is the default setting.

**Fav. station:**

The 10 most recent stations appear as "Fav." and then appear in alphanumeric order.

**Active station:**

The station list shows receivable stations and then others in alphanumeric order.

**Multiplex:**

Stations are sorted by frequency, in ascending order.

**Trim stn. list:**

Delete inactive stations from the list.

**5** **Within 30 seconds, press the ENTER button.**

Complete

## ■ Adjusting the DRC value

When the volume is low, adjust the DRC (Dynamic Range Control) value to make the sound more audible (may not available for some broadcast material).

**1** **Press the BAND button until "DAB" appears on the display.**

**2** **Press the MENU button repeatedly to select "Set DRC value".**

Set DRC value

**3** **Within 30 seconds, press the ENTER button.**

Set DRC Value
▾ DRC 1 ▴

**4** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the desired DRC value.**

Set DRC Value
▾ DRC 1/2 ▴

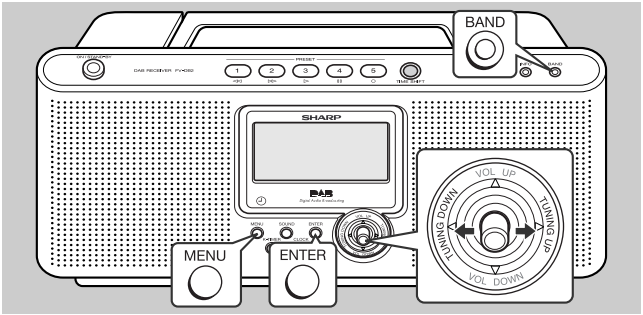
**DRC 1:** Dynamic range is controlled as set for the broadcast. This is the default setting.

**DRC 0:** DRC is off.

**DRC 1/2:** Dynamic range is controlled half as much as the level set for the broadcast.

**5** **Within 30 seconds, press the ENTER button.**

Complete



# Listening to DAB stations in the time shift mode

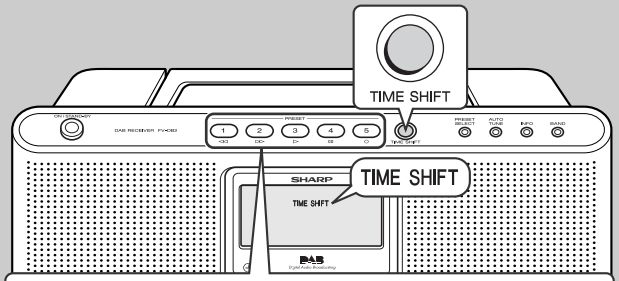


Use these functions when you are missing your favourite music for answering calls, etc. Received data is stored in memory, and you can listen to the music and view the DLS (Dynamic Label Segment) from the desired position afterwards.

These functions are available only when receiving DAB band broadcasting.

The maximum storage time depends on the bit rate of the data.

- At 64 kbps: approx. 16.6 minutes
- At 80 kbps: approx. 13.3 minutes
- At 128 kbps: approx. 8.3 minutes
- At 192 kbps: approx. 5.5 minutes



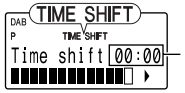

When you press the TIME SHIFT button to illuminate the "TIME SHIFT" indicator, the function switches from preset number mode to time shift mode.

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| ◁◁ Rewind | ▷▷ Forward | ▷ Playback | ▯▯ Pause | ○ Hold |

## ■ Rewind in the time shift mode

**1 Whilst receiving a DAB station, press the TIME SHIFT button to enter the time shift mode.**

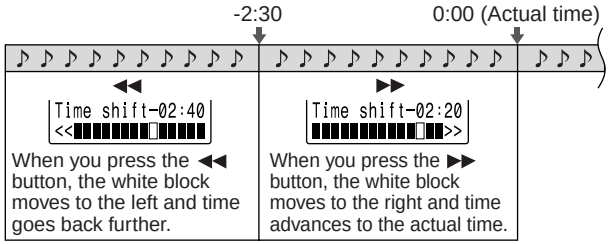
- "TIME SHIFT" appears in the display of the unit.
- The memory stores DAB broadcasts.




Time on the display indicates a difference with the actual time. For example, "-02:30" indicates that playback is 2 minutes and 30 seconds behind the actual time.

**2 Press the ◀◀ or ▶▶ button to set to the desired time.**

Release the button to start playback.




When you press the ◀◀ button, the white block moves to the left and time goes back further.

When you press the ▶▶ button, the white block moves to the right and time advances to the actual time.

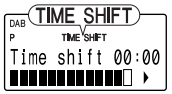
**To cancel the rewind mode:**
Press the TIME SHIFT button.
"TIME SHIFT" disappears.

**Notes:**

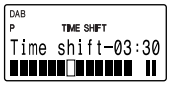
- The memory is refreshed all the time. If full, the oldest data is replaced by new one.
- When recorded data is converted for playback, sound is muted for a certain time period to prevent noise.

## ■ Pause in the time shift mode

**1** **Whilst receiving a DAB station, press the TIME SHIFT button to enter the time shift mode.**




**2** **Press the II button at the desired position.**




- Sound is not heard in the pause mode.
- Elapsed time (shown as "-** : **") increases and the white block moves to the left.
- DAB broadcasts are stored until the memory is full.

**3** **Press the ► button to start playback.**

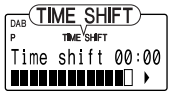
Elapsed time remains the same.

**To cancel the pause mode:**
Press the TIME SHIFT button.

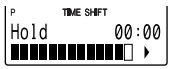
**Note:**
If the memory becomes full in the pause mode, playback starts automatically from where the II button was pressed. The memory is continually refreshed.

## ■ Hold in the time shift mode

**1** **Whilst receiving a DAB station, press the TIME SHIFT button to enter the time shift mode.**



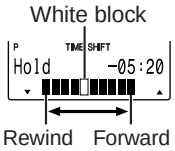

**2** **Press the ● button.**




- Sound is not heard in the hold mode.
- Data in memory will be retained until the hold mode is cancelled.

**3** **Press the ◄◄ or ►► button to select a playback position.**

Release the button to start playback.

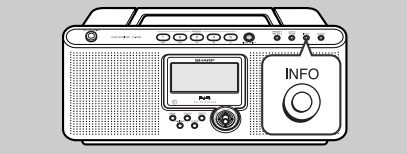



- The white block indicates the current position.
- To reverse, move the white block to the left by pressing the ◄◄ button repeatedly.
- To move forward, move the white block to the right by pressing the ►► button repeatedly.
- In the hold mode, you can play stored data as many times as you want.

**To cancel the hold mode:**
Press the TIME SHIFT button.

# Changing the information display

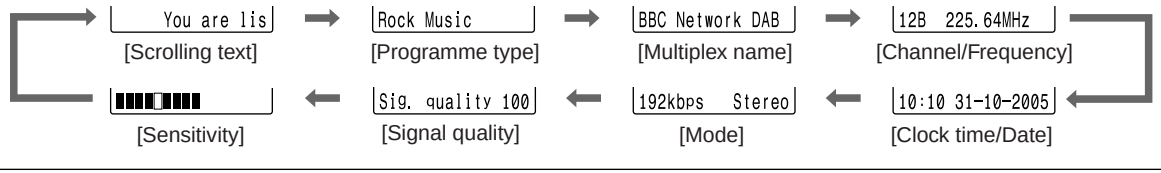





You can switch information in the lower part of display.

**Press the INFO button.**

Each time the button is pressed, the information display changes in the following order.
When "Not available" appears, the INFO button does not allow you to change the display.




**[Scrolling text]**
Information scrolls across the display when sent from the station (set by default).
You can pause, forward, or reverse scrolling text.
**Pausing text scroll:**
Press the ENTER button.
**Forwarding/reversing text scroll:**
Whilst text scroll is paused, move the operation lever toward TUNING UP or TUNING DOWN. Text scrolls by one character. Hold it to scroll through, and release to return to the pause mode.
**Resuming text scroll:**
Whilst text scroll is paused, press the ENTER button again.

**[Programme type]**
A description of the type of content being broadcast by the station.

**[Multiplex name]**
The name of the multiplex (ensemble) which provides the current service.

**[Channel/Frequency]**
The DAB channel and frequency for the station.

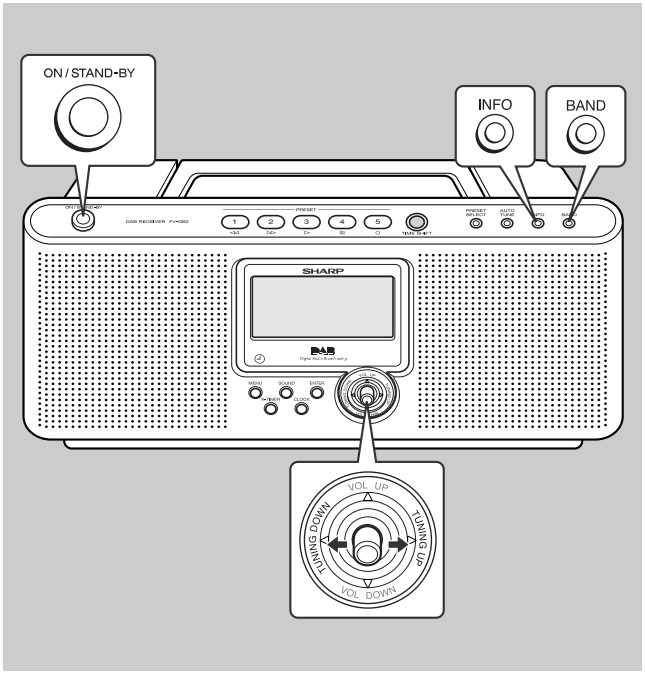
**[Clock time/Date]**
Date and time.

**[Mode]**
The data transfer speed and channel type (stereo or mono) appear.

**[Signal quality]**
The signal quality is displayed as a number (0 - 100).
[85-100: Good 70-84: Fair 0-69: Poor]

**[Sensitivity]**
Sensitivity of reception.
The empty block indicates the minimum required level for reception and the solid blocks indicate the current level.

# Listening to the FM




**1** **Press the ON/STAND-BY button to turn the power on.**

**2** **Press the BAND button until "FM" appears on the display.**

**3** **Move the operation lever toward TUNING UP or TUNING DOWN to tune in to the desired station.**

**Manual tuning:**

Move the operation lever as many times as required to tune in to the desired station.

**Auto tuning:**

Hold the operation lever is down for 2 seconds or more, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

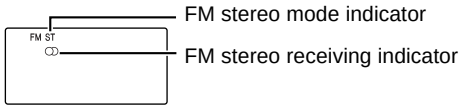
**Notes:**

- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, move the operation lever toward TUNING UP or TUNING DOWN.

**To receive an FM stereo transmission:**

Press the BAND button to display the "ST" indicator.

- "○" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the BAND button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

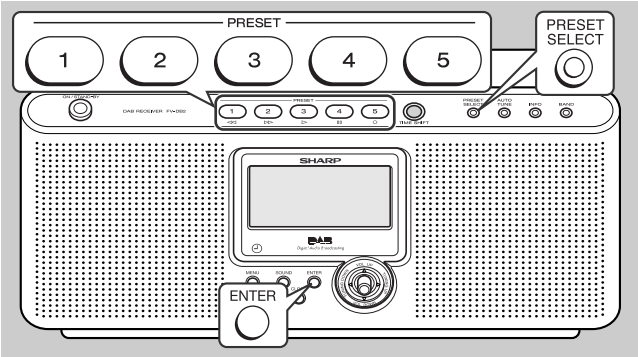



**Note:**

When you press the INFO button, date and time appear for approximately 5 seconds.

# Storing stations





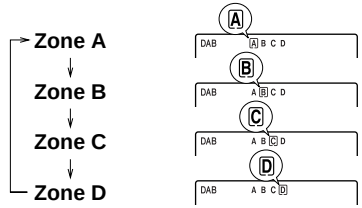

**If the "TIME SHIFT" indicator is on the display, press the TIME SHIFT button to turn it off.**

## ■ Memorising a station

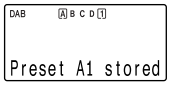
You can store up to 20 DAB and FM stations (5 stations for each zone A-D) and recall them at the press of a button.
For FM stations, stereo and mono modes are memorised.

**1** **Tune in to the desired station (see pages 10, 15).**

**2** **Press the PRESET SELECT button repeatedly to select the desired preset zone.**




**3** **Hold down the PRESET button (1 - 5) for 2 seconds or more to store the station in memory.**




**4** **Repeat steps 1 - 3 to set other stations, or to change a preset station.**

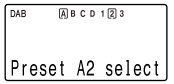
When a new station is stored in memory, the station previously memorised will be erased.

**Note:**
If memory batteries are not inserted or low, preset stations will be lost. When the AC adaptor is connected, preset stations remain without memory batteries. Preset stations will be lost if the unit is powered only by the main batteries and set to the power stand-by mode.

## ■ To recall a memorised station

**1** **Press the PRESET SELECT button repeatedly to select the desired preset zone.**

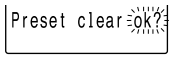
**2** **Press the PRESET button (1 - 5) for less than 1 second to recall a station.**



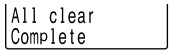

**Note:**
If the selected preset number is empty the display shows "Preset ** empty".

## ■ To erase entire preset memory

**1** **Hold down the PRESET SELECT button for 3 seconds or more.**

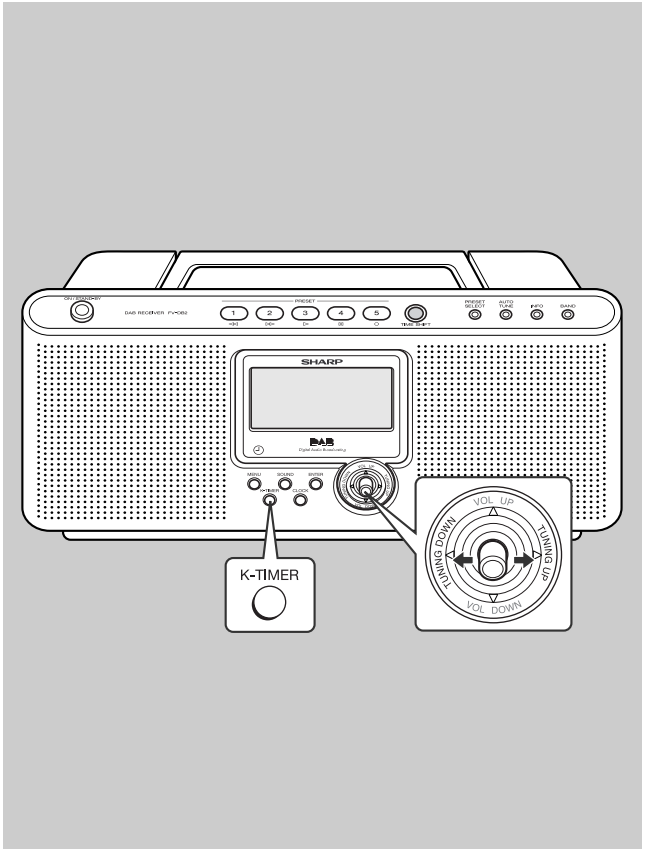



**2** **Within 30 seconds, press the ENTER button.**



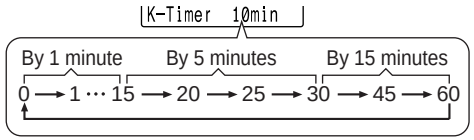
# Kitchen timer operation

The alarm sounds after the specified time elapses.

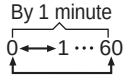



**1 Press the K-TIMER button repeatedly to select the desired time.**

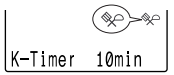
- You can change time between 1 and 60 minutes.




- To change time by 1 minute between 1 and 60 minutes, move the operation lever toward TUNING UP or TUNING DOWN.




- When 5 seconds pass after setting the time, the kitchen timer indicator will appear and countdown starts.




**2 When countdown finishes, the alarm tone sounds.**

The alarm stops after approx. 10 seconds.

**Stopping the alarm:**
Press the K-TIMER button.

**To cancel the kitchen timer setting:**
In the kitchen timer stand-by mode, hold down the K-TIMER button for 2 seconds or more.

**Note:**
If the unit is unplugged or a power failure occurs in the kitchen timer stand-by mode, kitchen timer setting is cancelled.

# Alarm operation



At the set time, the alarm sounds or the radio turns on.
This unit has 2 types of alarm functions: "1-time alarm" and "daily alarm".

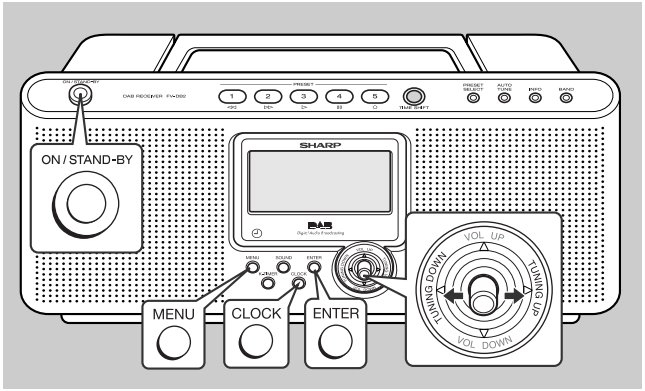
**1-time alarm:**
1-time alarm works for one time only at a preset time.
Use when...
You want to listen to a radio programme on the day.
(After operation, the alarm setting is cancelled.)

**Daily alarm:**
Daily alarm works at the same preset time every day.
Use when...
You want to use the alarm as a wake up call, or listen to the radio at the same time every day.

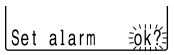
**Before setting alarm:**

1 **When setting the alarm, connect the AC adaptor to the unit. If batteries are the only power source, you cannot set the alarm (see page 6).**

2 If the clock is not set, the alarm setting is not available ("No time&date" appears). Receive a DAB station to set date and time (see pages 9, 10).

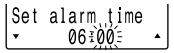



**1** **Press the CLOCK button repeatedly to select "Set alarm ok?", then press the ENTER button.**

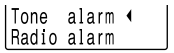



**2** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to specify the hour to start, then press the ENTER button.**

**3** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to specify the minutes to start, then press the ENTER button.**




**4** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the desired alarm type, then press the ENTER button.**

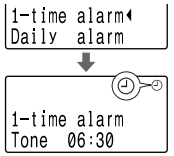



**Tone alarm:** The alarm sounds at the set time, and stops after 5 minutes. The volume gradually increases from 0 and reaches 40 after 1 minute.

**Radio alarm:** The radio turns on at the set time, and turns off after 1 hour. The volume gradually increases from 0 and reaches the level set in step 6 after 1 minute.

**5** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select "1-time alarm" or "Daily alarm", then press the ENTER button.**

- "⏲" appears in the display of the unit.
- The power of the unit will be still put on (not shut off automatically).




**6** **To use a radio programme as an alarm, tune in to a station and adjust the volume.**

**7** **Press the ON/STAND-BY button to the stand-by mode.**

- When you set the unit to the stand-by mode, "⏲" lights up at the lower left of the display.
- When "Tone alarm" is selected, its sound is heard at the set time even when listening to the radio.

**8** **At the set time, the alarm operation will start.**

- The current date/time and the remaining time appear alternately.
- The volume decreases 1 minute before the alarm operation finishes.

**Tone alarm:**

The alarm stops after 5 minutes. If you use the snooze repeatedly, the alarm will be disabled after 1 hour.

**Radio alarm:**

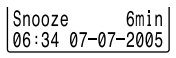
The alarm will be disabled after 1 hour.

**Stopping the alarm:**

Press the ON/STAND-BY button.

**About snooze function:**

You can pause the alarm sound by pressing a button other than the ON/STAND-BY button. In this case, the alarm resumes after 7 minutes.
This is the default setting.
The snooze time can be changed.
The remaining time also appears.




**To cancel the alarm setting:**

Press the CLOCK button until "Alarm off ok?" appears on the display, then press the ENTER button.

**To reset or change the alarm setting:**

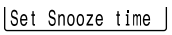
Perform "Alarm operation" from the beginning (see page 18).

**Notes:**

- The daily alarm operates at the same time every day until the setting is cancelled. Cancel the alarm when it is not in use.
- The 1-time alarm and daily alarm cannot be used at the same time.
- With memory batteries inserted, the alarm settings remain even after the AC adaptor is unplugged or when a power failure occurs. If memory batteries are not inserted or run out, the settings are deleted and the alarm is cancelled.
- In the radio alarm mode, if a selected station is not available at a set time, the tone alarm sound is heard instead.
- The kitchen timer starts at a set time even if the alarm is set for the same time. (The alarm remains disabled.)

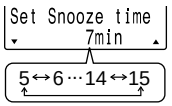
## ■ To change the snooze time

**1** **Press the MENU button repeatedly to select "Set Snooze time".**




**2** **Within 30 seconds, press the ENTER button.**

**3** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the desired snooze time.**




- Select set time from 5 - 15 minutes by the minute.
- Move the operation lever once to change the time by 1 minute. Hold it to change continuously.

**4** **Within 30 seconds, press the ENTER button.**

# Sleep operation

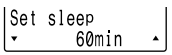


When the set time elapses, the unit turns off automatically.

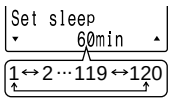
**Before setting sleep:**

**For the sleep operation, connect the AC adaptor to the unit. If batteries are the only power source, setting is not possible (see page 6).**

**1** **Press the CLOCK button repeatedly to select "Set sleep".**

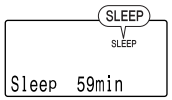



**2** **Within 30 seconds, move the operation lever toward TUNING UP or TUNING DOWN to select the desired sleep time.**




- Select set time from 1 - 120 minutes by the minute.
- Move the operation lever once to change the time by 1 minute. Hold it to change continuously.

**3** **Within 30 seconds, press the ENTER button.**




- "SLEEP" appears in the display of the unit.
- Remaining time is displayed during the sleep operation.
- The volume gradually decreases for the last 1 minute.

**4** **The unit will enter the power stand-by mode automatically after the preset time has elapsed.**

**To cancel the sleep setting:**
Press the ON/STAND-BY button whilst "SLEEP" is indicated.

To cancel the sleep operation without setting the unit to the stand-by mode, press the CLOCK button until "Sleep off ok?" appears on the display, then press the ENTER button.

**Note:**
The kitchen timer starts at a set time even if the sleep operation is set for the same time. The sleep operation starts after the kitchen timer ends.

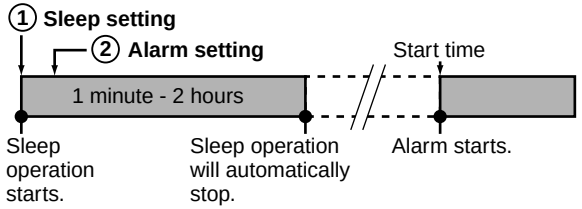
## ■ To use alarm and sleep operation together

For example, you can fall asleep listening to the radio and wake up to alarm in the next morning.

1 Set the sleep operation (steps 1 - 3).

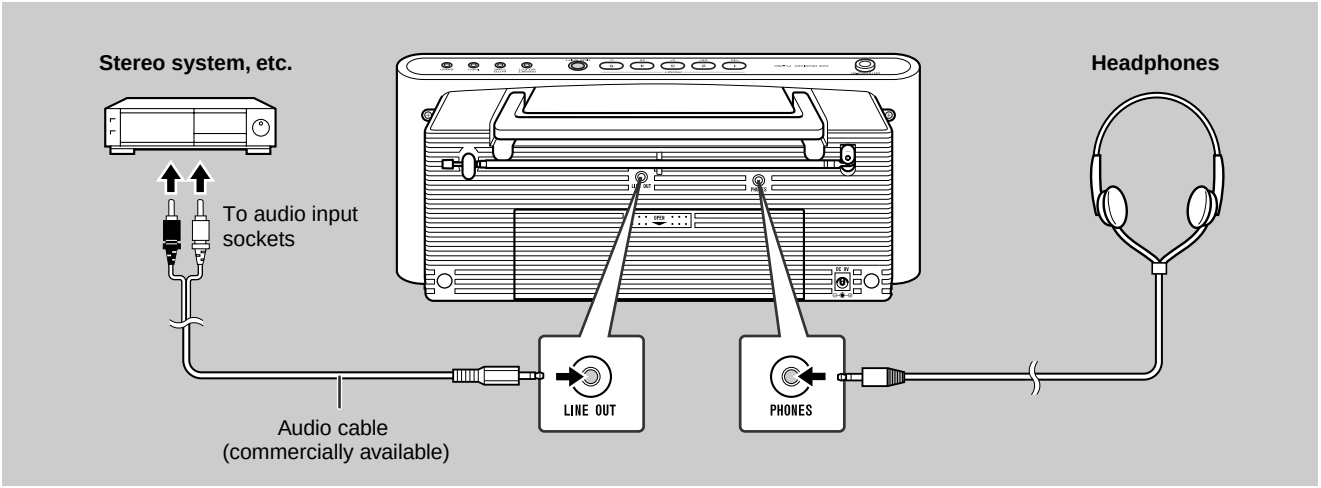
2 Set the alarm (steps 1 - 6, page 18).

The unit enters the power stand-by mode after the time is set for sleep operation, and turns on at the start time of the alarm.



# Enhancing your system

Turn off all other equipment before making this connection.




## ■ Connecting to a stereo system, etc.

You can enjoy the sound through a stereo system by connecting to the unit with an audio cable.

**Notes:**

- Plug in each cable fully to prevent noise interference.
- Refer to the manual for the connected equipment.
- The unit produces both DAB and FM sound.

## ■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the volume control.

# Troubleshooting chart



Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

| Symptom | Possible cause |
|---|---|
| When a button is pressed, the unit does not respond. | ● Set the unit to the power stand-by mode and then turn it back on.<br>● If the unit still malfunctions, reset it. |
| No sound is heard. | ● Is the volume level set to "0"?<br>● Are the headphones connected? |
| DAB channels cannot be received. | ● Signal reception is poor. Adjust the aerial direction (see page 8).<br>● Move the unit to another room or near the window, then tune in manually (see page 10). |
| Sound from DAB channels is interrupted or distorted. | ● Is the unit placed near the TV or computer?<br>● Move the unit to another room or near the window, then tune in manually (see page 10).<br>● Are the main batteries dead? |
| Secondary services cannot be received. | ● Some DAB channels do not offer secondary services. "≫" appears the station name when secondary services are available (see page 10). |
| The alarm does not start at the set time. Or "◴" is flashing. | ● Is the AC adaptor of the unit plugged in?<br>● Did a power failure occur? Receive a DAB station to set date and time (see page 9). |
| The unit does not store stations, or the clock does not keep time. | ● Are the memory batteries dead?<br>● Is the memory battery polarity correct? |

## ■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

**If such a problem occurs, do the following:**

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the AC adaptor from the wall socket and replace the main batteries, memory batteries and then turn the power on.

**Caution:**
This operation will erase all data stored in memory including clock, alarm settings, tuner preset, and station list, etc.

## ■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the MENU button and the PRESET 4 button, press the ON/STAND-BY button until "All clear ok?" appears.
3 Within 30 seconds, press the ENTER button.
"Complete" appears and the memory is cleared.

**Caution:**
This operation will erase all data stored in memory including clock, alarm settings, tuner preset, and station list, etc.

# Maintenance

## ■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

**Caution:**

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of unit as this may cause malfunctions.

## ■ Condensation

When condensation is formed, the unit may not function properly.

**Condensation may form in the following cases:**

- Shortly after turning on a heater.
- When the unit is placed in a room where there is excessive steam or moisture.
- When the unit is moved from a cool place to a warm place.

**To remove condensation:**

Leave the unit for approximately 1 hour. The condensation should evaporate and the unit will work properly.

# Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

## ■ General

| | |
|---|---|
| **Type** | DAB receiver |
| **Power source** | DC 9 V: AC adaptor (AC 230 - 240 V, 50 Hz)<br>DC 9 V: "C" size (LR14) alkaline battery × 6 as main batteries<br>DC 3 V: "AA" size (UM/SUM-3, R6, or HP-7) battery × 2 as memory batteries |
| **Power consumption** | 11 W (AC adaptor)<br>7 W (DC, batteries) |
| **Output power** | RMS: 4 W (2 W + 2 W) (10 % T.H.D.) |
| **Speaker** | 8 cm full-range speaker |
| **Output terminals** | Headphones:<br>3.5 mm stereo mini plug type × 1<br>16 - 50 ohms (recommended: 32 ohms)<br>Line output (audio signal):<br>3.5 mm stereo mini plug type × 1<br>2 V/10 k ohms at DAB 0 dB |
| **Dimensions** | Width: 320 mm<br>Height: 135 mm<br>Depth: 100 mm |
| **Weight** | 1.7 kg (without batteries) |

## ■ Radio

| | |
|---|---|
| **Frequency range** | DAB: 174 - 240 MHz<br>FM: 87.5 - 108 MHz |

## TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

**1.** This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

**2.** As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

**3.** To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

**4.** The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.

**5.** In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

**6.** No person has any authority to vary the terms or conditions of this guarantee.

**7.** This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277
(or (01) 676 0648 if telephoning from Ireland)

SHARP

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